

# SPECTRON INC.

## *Superfund Site*



U.S. EPA Information Update

June 1998

## Little Elk Creek Removal Project Set to Begin

The U.S. Environmental Protection Agency (EPA) recently released the final **Action Memorandum** for the Little Elk Creek Removal Project at the Spectron Inc. Superfund Site. According to the memorandum, the **potentially responsible parties (PRPs)** will begin removal actions this summer to contain, capture and treat contaminated **groundwater** that currently migrates into the creek from the site.

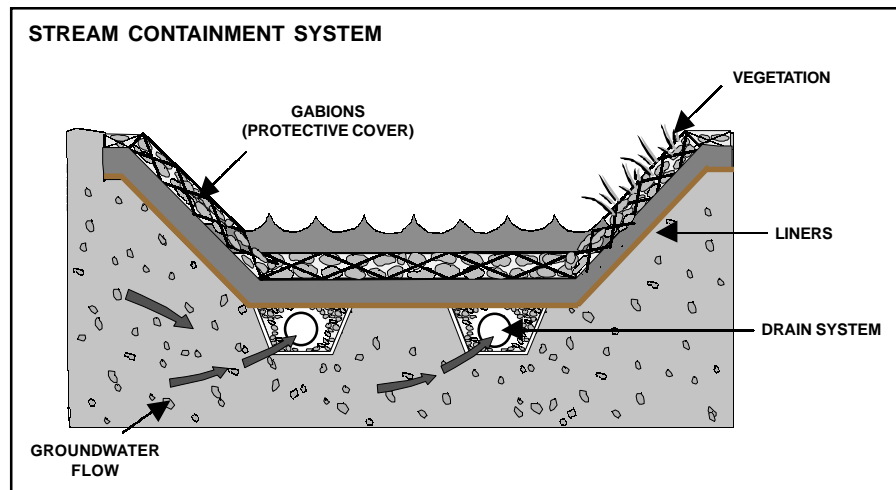
There are two parts to the removal project — constructing a stream containment system and building a groundwater treatment plant.

### Stream Containment System

Construction of the stream containment system is the first step. The stream containment system will consist of a stream liner that will contain the groundwater that currently enters the creek in the vicinity of the site and a French drain system that will collect the groundwater from this area and direct it to a small treatment plant.

#### • Liner System

EPA reviewed over six different liner technologies for use in the creek containment system for the Little Elk Creek Removal Project.



*This diagram illustrates a typical cross section of the stream containment system for Little Elk Creek.*

For each liner system, EPA considered a number of characteristics including:

- chemical resistance,
- resistance to cracking and leaking,
- ability to be shaped to the stream bed, and
- ability to be repaired without interrupting the collection and treatment of contaminated groundwater.

After considering each of these qualifications, EPA selected a system consisting of two liners. One of the liners will be a high-density, chemical-resistant plastic that is about 40 - 60 millimeters thick and able to withstand all of the chemical contaminants in the

stream and groundwater. The second layer, made of clay, will lie under the plastic liner and provide a second layer of protection in case the upper liner is punctured.

The liner system will be protected by gabions (mats of rocks encased in chain-link fabric). Besides protecting the liner system, the gabions will provide a surface on which to rebuild the creek's habitat.

During the year following the liner installation, at the most appropriate time, vegetation will be planted on and around the liner in order to restore the creek habitat to its former state prior to contamination.

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The PRPs have already restored the Eastern Mill Race section of Little Elk Creek which is located on the north side of the Spectron Dam. This section will help to maintain stable hydraulic conditions in the Eastern Mill Race and at the entrance to the creek containment structure. The PRPs will install 850 feet of liner in the portion of the creek that flows past the site which is where most of the contaminants enter the creek. Construction of the liner is expected to begin in August 1998.

- **French Drain System**

The PRPs will install a French drain system (i.e. a passive drain system) just below the stream liner. Contaminated groundwater flowing from the site into the creek will be contained by the liner system and diverted to the underlying French drains. The drains will carry the groundwater to sumps made of chemical-resistant, high-density plastic. Pumps will transport the collected groundwater to the treatment plant.

## **Treatment Plant**

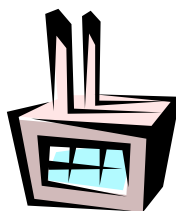
In order to build the most effective treatment plant, the PRPs will first build the containment system and

## **EPA Considers Community Concerns**

EPA finalized plans for the removal project after seeking and considering input from the community. Community members were invited to ask questions and express their concerns about the **Proposed Removal Plan** during the 30-day public comment period held from February 17 through March 18, 1998 and at a public meeting on February 24, 1998.

This fact sheet responds to some of the most relevant questions and concerns raised at the public meeting and during the public comment period. For a complete summary of the community's questions and EPA's responses, please refer to the **Responsiveness Summary** which is available in the Administrative Record File. (Please see page 4 for information on the Administrative Record File.)

then evaluate groundwater samples collected from the containment system's sumps. The samples will provide specific information on the concentrations of contaminants in the groundwater. With this information, the PRPs will be able to design and build a better system for treating the contaminated groundwater.



water collected in the sumps will be pumped to it. There, the contaminated groundwater will undergo a combination of treatment technologies. The clean groundwater will then be released back into Little Elk Creek. The PRPs will operate the treatment plant as long as necessary to prevent the groundwater from contaminating the creek. Until the treatment plant is built, contaminated groundwater will collect in the sumps and then migrate into the creek beyond the liner. ▣

When the onsite treatment plant is completed, contaminated ground-

## **Anticipated Construction Schedule**



### **Fall/Winter 1998**

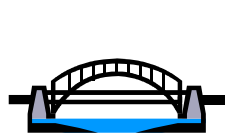
Stream Containment  
System Constructed

### **Spring 1999**

Treatment Plant  
Constructed\*\*

*\*\*Construction of the treatment plant will begin as soon as possible after completion of the creek containment system and evaluation of groundwater samples.*

## Providence Road Bridge Will Not Affect Removal Project



Construction of the Providence Road Bridge

will not affect the removal project. Construction of the bridge should be finished this summer. However, the PRPs will begin building the containment system, as planned, at the end of the summer regardless of the bridge construction

progress.

Construction of the bridge will not disrupt the creek's contaminated sediments and therefore will not increase the risk of contamination migrating to residential wells. The new bridge will be a suspension bridge which will not require the support of a piling in the creek bed. ■

## A Look Ahead

EPA will continue monitoring residential drinking water wells on a quarterly or biannual basis to ensure residential wells remain safe. Currently, as part of the **remedial investigation and feasibility study (RI/FS)**, EPA is studying the movement of the

deeper groundwater beneath the site. The main focus of the RI/FS, now being conducted by EPA's Remedial Program, is to determine the best long-term remedy for cleaning up the contaminated soil and deeper groundwater at the site. ■

## EPA is on the Move . . .



This July, EPA is moving the Region III offices. Contacting EPA

representatives will still be easy during this transition because only the second three digits of the EPA phone numbers will change — instead of dialing 566, after July 16th, you will dial 814. The new EPA address is:

U.S. Environmental  
Protection Agency  
1650 Arch Street  
Philadelphia, PA 19103-2029

(The toll-free 800 number will not change.)

## Glossary of Terms

**Action Memorandum:** A decision document that outlines EPA's selection of a cleanup plan for a removal project.

**Feasibility Study:** A study which further evaluates the remedial investigation to identify and evaluate possible cleanup methods for a site, including their benefits, limitations and costs.

**Groundwater:** Water found underground in gaps between soil, sand and gravel particles, and which often is a major source of drinking water.

**Potentially Responsible Parties (PRPs):** The companies or people considered to be responsible for contamination at a site. Whenever possible, through administrative and legal actions, EPA requires PRPs to clean up hazardous waste sites to which they appear to have contributed.

**Proposed Removal Plan:** A document that describes the cleanup methods EPA evaluated to address problems caused by contamination and identifies EPA's preferred option. The public is invited to comment on a Proposed

Removal Plan during a public comment period and at a public meeting.

**Remedial Investigation:** A study that identifies the types and amounts of site contamination and determines the threat this contamination poses to human health and the environment.

**Responsiveness Summary:** A summary of comments which EPA receives during a public comment period for a Proposed Removal Plan, and EPA's responses to those comments.

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## For More Information...



For more information about the Spectron Inc. Superfund Site, please contact one of the EPA representatives listed below.

**Sarah Caspar (3HS32)**  
**Removal Enforcement**  
**On-Scene Coordinator**

(215) 566-3283

caspar.sarah@epamail.epa.gov

**Carrie Deitzel (3HS43)**  
**Community Involvement**  
**Coordinator**

(215) 566-5525 or

1-800-553-2509

deitzel.carrie@epamail.epa.gov

**Randy Sturgeon (3HS23)**  
**Remedial Project Manager**

(215) 566-3227

sturgeon.randy@epamail.epa.gov



Mail for the EPA representatives can be sent until mid-July to:

U.S. EPA, Region III  
841 Chestnut Building\*  
Philadelphia, PA 19107

\* See box on page 3.



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## To Review the Site Records

Information about the site and EPA's planned removal project is available in the Administrative Record File. The Administrative Record File is EPA's official collection of documents, data, reports and other information that support EPA's decision for cleaning up a site. You may review the file at the Information Repository listed to the right.

**Cecil County Library**

301 Newark Ave.

Elkton, MD 21921

(410) 996-5600

**Hours:**

10 a.m. - 9 pm.

Monday through Thursday

10 a.m. - 5 p.m.

Friday and Saturday.

You may also review the file at the EPA Administrative Records Room, 841 Chestnut Building, Philadelphia, Pennsylvania. Please call (215) 566-3157 to schedule an appointment. (Please see box on page 3 for relocation information.) ■

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## Removal Actions to Begin This Summer

### Look Inside for More About the Spectron Inc. Superfund Site



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